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<110> Liew, Choong-Chin

<120> Method for the Detection of Lung Disease Related Gene Transcripts in Blood

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<141> 2004-03-30

<150> US 10/802,875

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<151> 2002-10-09

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<151> 2002-02-28

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<151> 2000-01-04

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<170> PatentIn version 3.2

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 gggtttcccg ggggaaccaa ccctttaagg ggtngggggg aatttcccc caaaaaaagg 120
 gaaaaanttt tccggggggc ccacccggga agggntnccg ggggaagg 168

<210> 15
 <211> 438
 <212> DNA
 <213> Human

<400> 15
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 cccacatttc cattttta atatactgtg ctttaciaa attataatat gttttaaaat 180
 atgttcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaa ataagcattc 240
 tttgaatata tatttagttt tttaatgtgg taggaaaatc aaagccagag ggagtagaaa 300
 caaaatttgt gattttctaa atacttcttg gctgcaggga agaaaccacg tcccaggcga 360
 agtcctacct aatttgatga taaaattaca tggaagggat tcttgttggc atgaggacct 420
 accaagatgg tcaacaga 438

<210> 16
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ctttaaggnt tgggggaatt cccccaaaa aggaaaaaat tttcccgggg gcccaaccgg	120
aaagggggaa ggcccccaa accggggggg gggnaaaaag gtgggtttcc ccctttttcc	180
aattcccaa accaatttcc aaaaggnaaa ccaacnttc ccaaaatggg aaagg	235

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 <211> 294
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 <213> Human

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gggggnccaa accggnaaag gntttgggaa aaccaaattt tttttggncc caaccccccc 120
caaattgggg ggnaaaccaa atttaagggg ggaagggggg gncccccccg ggaaaggccc 180
aaggggggaa aattttttccg ggggtgggtn gggggaacca atttaagggg ggggcccccg 240
gggggggttcc ccttgggccn tttttccttt tgggtnaaaa aaaaaaaccc cttg 294

<210> 18
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<212> DNA

SEQLIST~1.TXT

<213> Human

<400> 18

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ctgtacttga actctaaaac tgttggagaa actcagtgtc taccccaaca gattcatttc	180
aaatagctgt aaaagggtatg tttactccag aagaccagag ttgcttcttt tgaacttctc	240
attccttggg cctaggaacc ctcatcacc tcatcccaac gtcaaccag atcttctctt	300
ccataaacag cactccctca ggcccctgcc tgacacaggc atagactgtc atgttggatt	360
cacagacagg ctgtgctaga ggaaacctct ggggctcacc aggggccgtg ggatgggctt	420
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<211> 242

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cggcccgggc ccgggnagcc cttcccgggc ttttcccccg ggggggnccc gggggggacc 120
tttaggcggc accccaacaa caccaggccc tactttttcc aaggncgggg aagcccatgg 180
gttctgggna acgggcaatg cgggcttgca acgggnnggaa naaaaacagn cccaaaagaa 240
tg 242

<210> 20
<211> 181
<212> DNA
<213> Human

<400> 20
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tctcagctca ctgcaacctc cacctctcag gagaattgct gaacctggga ggcggaggtt 120
gcagggagct gagattgcgc cactgccctc catcctgggc gacagagcaa gaacctgtct 180
c 181

<210> 21
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<400> 22

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ataatggaag atagctntga ggatnaacnc tggtnaggg 100

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tttgnggctg cngcccctgt gcctgggtgcc acaacaaatg 100

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 cgggaaggcc nttggggaaa aaaccaangg ncaaaccccc ccaaccacnc ggcccccccc 120
 aaggggggtg gggaagagcc aaatttcttt gggaaanaac gcccccttgg ggaaaanaag 180
 gcccaaccacc tttcaacanc ccccaangcg nggaagccat ttcttgg 227

SEQLIST~1.TXT

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 <212> DNA
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ggaagaattg tatgtgggag tttttaatgg tctcatttca ttggctataa ctcagttaca	180
aggagaaata taactgcaga ggagctttga aaatttagtt cagctgaggg taaaggaaga	240
agagacaaat tttgtcatca gctagtgatc tgccatacaa ggtgttcctt taatatgtgt	300
agaatg	306

<210> 26
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 <212> DNA
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<400> 26

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ttgaggcgaa aggactcgcg gatttgacgc ttgatgcggt tgcgctcgac ggcgagcttg 180
acgctctttt tgccgatcac caaacctagg cggggatgat caagctgggt atcgcgcgct 240
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ttgccgggga gtcagcagtc gctttttccc ggncgaagcc tcgaactcac cancctgtct 360
ggattaatta gacagcaaga cgcttgcggc ccctttggcg cgaacgaacn ncgaaaagga 420
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gccaaacccc cc 492

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acgagccggg ctggagcggt gggaaaagca aatgtaggca taagtaacga caatgcgggc 120
gagaaccccg cacaccgaaa ggctaaggat tcctccgcta tgtcaatcaa cggaggggta 180
gtcgggtact aaggcgttag cgaaggcgaa gcgccgatgt gaaggggggtt aatattcctc 240
cacttgccat gcgtgtgaat ccatgacgga gacgaagccg ggggtgctgc ctgacggaag 300
tgggcgccag caggggcggc cttcggggcca aaccgaacct caggtcanac ttccaagaaa 360

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SEQLIST~1.TXT

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agtgggtgaa acgccagcgc atggcaaccc gtaccgcaaa ccgacacagg tagccggggg 420
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aagaaggaaac ccaccctnng ggccaaacaa aaacttaaaa acccccccat ttcntncccc 180
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SEQLIST~1.TXT

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<400> 29 60
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cantcantng ttgccntntg atacccnana caaaattgaa

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gggtgctcctg cgtttggtact gtgcaggcct ctccatgct gatgcgtctc cccactcctg 180

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<223> n is a, c, g, or t

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ctcagactgc aaantgtnat nctgncnnan nntgnggact gtcngncng atttnnngcn 120
tgnaatacta ttgcctctta tatacacnac caannntgcg aagggcnann nnacctttnc 180
cantnnnctg gggnccccach nnnngngaact gagagtggat cttgtgtacc tgacnnacca 240

SEQLIST~1.TXT

gntntnnagn agggcgctca ctctgattgg tgcaccatgg ttacacagtg tgtgcaaaga	300
ccngnctatc tctactganga tgattgncag ngccnntggg tggcacnang ggnactgatg	360
ancancactg accctgccga cgccagangc cgcanatccg gagantncat gngacnatat	420
aggttaccnc cttcnaccgg gcancaatct gcttctatgg tgaatgcaga ccatntagaa	480
ntctntcnct ataggcatga ttttnnncag tgcgtcagcc ttganaanga ancnnacttt	540
tgntagatga nnnngtgctc ncccttgnng ctnacaaatt ccancaccnt tgggtggcngc	600
agccnttaag ancacttntt ttgggttgcg ctnttggaatg aattacnaat agnntgtttt	660
gttncaaggc ctttctgcna aatatgaana aaagngcnct tagctttttg ngggaactgn	720
actggaaatt ttg	733

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<222> (74)..(74)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (80)..(80)

<223> n is a, c, g, or t

<400> 53

gatcagacaa gancntgggtc cacagcggga cgagagntct cnannctgcn ggggaghnnc 60

caagtacgcn agcnctgaan ctaaagcaag caagaaaaag 100

<210> 54

<211> 515

<212> DNA

<213> Human

<400> 54

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agagccaagc taaacccccg ataccgacga gtaccagaac aggtaagcac cccgtctatg 120

tagatatggg aagattatag gaggcgacaa ctaccgagcc tggatagatg tgggtgtccaa 180

gaagagtctt agttcattta ttgggcccag aaccctctaa tccccttgta atttatgtca 240

agaggaacag ctctttggac actggaaaac cgtgagagag taagatttac acccttaggg 300

gcctaatagc agccaccatt aagaaagcgt tcgctccaca cccactacct aaaaatcgaa 360

tataactgac tcctcacacc caattggcca atcattcccc tataaaagaa ctatgttagt 420

ataagtaacc tgaaaacatt ctctctgca taagccctgc gttggattat atcctgcact 480

gacaattaac tgccccaata tctacaatcc aaccc 515

<210> 55

<211> 176

<212> DNA

<213> Human

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<222> (5)..(5)

<223> n is a, c, g, or t

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<222> (32)..(32)

<223> n is a, c, g, or t

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<222> (40)..(40)

<223> n is a, c, g, or t

SEQLIST~1.TXT

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 <222> (62)..(62)
 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

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 <222> (107)..(107)
 <223> n is a, c, g, or t

<220>
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 <222> (155)..(155)
 <223> n is a, c, g, or t

<400> 55
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 cntatctcaa ctaatnataa atgggaaaat gggcaactgg gcaggcngaa cccagagggga 120
 agcctgccct cattagacca agacagcaag gtttncctg gtcactagat gaaatt 176

<210> 56
 <211> 317
 <212> DNA
 <213> Human

<220>
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 <222> (4)..(4)
 <223> n is a, c, g, or t

<400> 56
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 atgtgggatg tgacctccta ggactcacct tgcacagctg ggtgcagcag ggataggtaa 120
 ggatttgggg tttagaggta caattgcctt tttatgggta gagaaagggtc ctggggctgg 180
 agggagcctg acgatctgct ctgtgtgcaa ggggagagtt aactctgcac gcaagagcct 240
 gcttaaaggg ctgtgtcagt tctattgtaa acaccaactt aaagtgggtgg atgctggcag 300
 acattgttat tgccatt 317

<210> 57
 <211> 209
 <212> DNA
 <213> Human

SEQLIST~1.TXT

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ctggactgga cactgtatac ccacatgcaa gatgaagttg gccccttaca tcctatacgc 120
aggagaattg cgtcatttaa agcctgttga cgcttttctc ccgcagacga atggaaagat 180
taattgggag tgggggctga aacaattcg 209

<210> 58
<211> 262
<212> DNA
<213> Human

<400> 58
aattttgctg ttacatggtg gctcaactga gtcccatact ttgaaggccg ggagttaatc 60
acctggtcac cgagttgcga accagcctcc aatatgtgga accctgtact ctctaaaaat 120
caaatcaccg gcatggagat tgcgcctgtg gtcccaaaat actcgggctg ggacacgatg 180
agttgcttgg cccaaggaag gaggggttga tggctgatca cactggtccg cctgggtgac 240
agagcgagac tccatctcta at 262

<210> 59
<211> 430
<212> DNA
<213> Human

<400> 59
gtcagtttat ttctgactag ggatattttc tttccattta gaaaagaaga aaaaaaaaaa 60
aaacctttat tgtcttacag gggggaacta gcgcggggct gaataaaacc tttggccctt 120
cccgggggag gggatatccg tttataaacc ccaagggat tttcttagca aaatacttaa 180
aaccggcccg ggtttttata caaactggga acccactttt gaaaaatttt ggccttttga 240
tctgggatgg gaatatgagt ttttatacat ttcattttct ttttgggcaa aggcccgggt 300
aagtattccc ccccgggggg cctttacaaa aagggcggtt ttaaaagctt ttgggcccc 360
ctaggggaatt gttttaacac ctaaaaaccc ctgcttcct taaagggcg tttttaatt 420
tgggggcggc 430

<210> 60
<211> 350
<212> DNA
<213> Human

<400> 60
aaacctctct aactatatat cacaataacc tgcgcataag atttacgctc cgatcttttc 60
atcctactag cttggaggat ttgaaccgat tatgaatacg caatactccc ggtcctcatg 120
tatcatgtgt aagcccatct cctgggaggg ctaacatact accatctcca aggagaggca 180

SEQLIST~1.TXT

tgattccgaa tcacccacag acagctcgat caccatacgt atcacccaac atatatacct	240
tctaagactt gctagaaaca accaccacat ttgatgctta atcaccactc tgacgcgcgc	300
taaagtgagg ggactctcct aatttctgta agttgatttt tgcattctga	350

<210> 61
 <211> 515
 <212> DNA
 <213> Human

<400> 61	
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cacttttcttt gagaattcaa catattgcaa gttaaaattt tcatagacta cacaagaaa	120
aataatcagg caaatcctta agaataaggg caattaagga tgactagccc tacaagattt	180
taaaaaggat tcattagttt aaaaaatgtg atgtagatac atgaataaaa taaaatcttg	240
aagtagatcc aaatatacat ggtagcagattg aatacaataa agatggcatc gtagcagtg	300
agaaaagaag aattatttca taaaccttgt tggaatggct aggcaatcat ctggaaaaaa	360
atgaagtga ataataaaaa tatattctac actagcacia attataaata aagcagtgat	420
ttaaatgaga aaaattaaat cataatgatt tcaaagataa cataggataa tttctttata	480
gtcttctaaa atatatgact ttatgaattc tgact	515

<210> 62
 <211> 611
 <212> DNA
 <213> Human

<400> 62	
caagtacttt accaactaag ccaatcttgt cccagccag gcatttctat acaaagggcc	60
aagactttgg ttttataaat aaggaggtat atataaatta tatatatttc tgagctgagt	120
aataatccac cagatacaag ttgcatcaa cttctgtgaa atattttttt tcctttttgt	180
tgggcatttt tatgggtctaa atatagaatg accaatgcct ctagaacaaa cttgacctgg	240
tcagtgttat caagaagcag actgtttctt actttctttg tatttcctta cttattttaa	300
tttggttaaaa ttgatataat gatataaaa acttcttttg ccagtgttgg tggcacacgc	360
ctttaatccc agcacttagg aggcagaggc aggggtggatt tctgaatttg agggcaggct	420
agtctacaga gcaagttcca ggtagccaa ggctatatat agaaactctg gcatgaaaaa	480
ccaaccaaac caaaccaaac caaaccagac cagaccagac cagaccagac caaaccaaac	540
caaaccagac taaaccaaac caaaccagac cagaccagac cagaccagac cagaccagac	600
cagaccaaac t	611

<210> 63
 <211> 291

SEQLIST~1.TXT

<212> DNA

<213> Human

<400> 63

ccgagagatt ggccactgct taaactcatg cagctcctac tgttcttcaa ttaatgcctt	60
taatgcgaat atacttcctc ttctttttgc atggctcttg ccagcctctg caatactgat	120
gaacacatgc tgaagatcat ctaactcaat atggcgcata tttctatgtc ttgctgcccc	180
ggacatagga caacttcgtc gctcactagt tctaacatat taatgctggc gtaggtggag	240
aactactgca catatactct tactcggagg ctgaggcacg aggatcactt g	291

<210> 64

<211> 309

<212> DNA

<213> Human

<400> 64

gccagatgcc gtgtttcctc gatgaactct ttacatcatt ggctattcag tggagtgttt	60
cattatcacc tctcactctc gcgtgttacc taactctccc tcgcagggga aatcactcca	120
tatatttcaa atgtcttgct aacagtgggt actttgctct atccttagct atacgtctcg	180
aggcacattg ttctctatg ccccgctacg ctttgcccta gagctcggcg gtatctatat	240
cttaactgcc ctcttgatcc ttacgtgccg gagaagggtg aggcagaaat tttgtcaaat	300
ctgattaga	309

<210> 65

<211> 278

<212> DNA

<213> Human

<400> 65

tagaatggaa tggagtcgaa tgtgatggaa tggacgcgaa tggaatggaa tggactcgaa	60
tggaataaag tggaatagac tcgaatggaa tggaatgcaa tggaatggac tcgaatggaa	120
agggatggaa tggactcgaa gggaatggaa tggaatggat tcgaatggaa aggaatggaa	180
tggactcaaa aggaatggaa tggaatggac tcaaatggaa tggactcgaa ttgaatgaaa	240
tgtaatggaa tagactcgaa tggaatggaa cgaaattt	278

<210> 66

<211> 142

<212> DNA

<213> Human

<400> 66

agttctcctt aggttaatta atggaatgca atcccaatga aaatgtcacc aaagttgttt	60
tttttttaac tgtaggaggt ttataataat gctcatatgg aaaaataaaa catgtaaaaa	120
atagctagta aactccccct gt	142

SEQLIST~1.TXT

<210> 67
<211> 286
<212> DNA
<213> Human

<400> 67
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aaagatgatc tcctcatgct tccatgcact gcgagtagaa gacatactga gcatagtgtg 120
attatTTTcc caacaaattg gcattcatag atagaataag ctgactaaga ctacttagcc 180
ccacatTTTT ttctacttgc tccaatagca ctaacaaata ggaagctctt gcttgctccc 240
caaagctcca tttccttgaa agcagaagtg taatattact tcttag 286

<210> 68
<211> 179
<212> DNA
<213> Human

<400> 68
atctactTTT tattcTTTTg ataaatgttt atgaaatata aaatactgaa aattagaaa 60
tagaagtcatt tattTTtatta taaaacatgt ggattagata ttttcattta tgtgattaaa 120
ctttctaaac aaagattata tgaattatct taaagattta aaaagtaatt aagttaaatt 179

<210> 69
<211> 390
<212> DNA
<213> Human

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<223> n is a, c, g, or t

<400> 69
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cttcagtcta agaacgtaaa tccatggaag aattTTtaagc aggggtgtgc cttgaccaca 120
TTTTgaattc taaactgtct ctgggtgggt gtgggtgccca ccaagagcat gtgttcatgt 180
aggagactg gTTTTttaca gttgtctatg agagagatga cagttgcctg gattatggtg 240
gtgacattgg agataagcag gtagacagat tctcagtgtg ttaggagaga aaaatcaata 300
ggaaatttaa aataaataat taactgtggc cataggagga aggagtctt gggttnggtt 360
ctcaatttct gcatgagaaa aaaggtggac 390

<210> 70
<211> 481
<212> DNA
<213> Human

SEQLIST~1.TXT

<220>
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 <222> (26)..(26)
 <223> n is a, c, g, or t

<400> 70
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 gatgacataa aatgagatga aatgagatgt aatgatggaa tgagatgaga tgaaatgaga 120
 tgaaatgata gatgagataa aatgatgata tgaaatgatg agatgaatga tgagatgatg 180
 agatgaatga tgaaatgaaa tgatgagatg agatgatgaa atgaaatggt gagatgaaat 240
 gatgagatga aatgaaatag tgaaatgaaa ttgaaataaa atcgaaatga gagatgaaat 300
 gatgagatga tgaaattgat gaaatgatga gatgtgatga gatgaaatga tgagatgaga 360
 tgagatgaca tgaaataatg aaatgaaatt gaaatgagat aagatacgag ctgagatgca 420
 atgagatgaa atgatgagat gaaatgaaat agtgaaatga aattgaaata aaatcgaaat 480
 g 481

<210> 71
 <211> 125
 <212> DNA
 <213> Human

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 <223> n is a, c, g, or t

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 <222> (19)..(19)
 <223> n is a, c, g, or t

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 <222> (29)..(29)
 <223> n is a, c, g, or t

<220>
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 <222> (38)..(38)
 <223> n is a, c, g, or t

<220>
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 <222> (42)..(42)
 <223> n is a, c, g, or t

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 <222> (45)..(45)
 <223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<222> (110)..(110)
<223> n is a, c, g, or t

<400> 71
cggtngcaat tggggggccnc atacgcgcng acgagtantg gncangctnc ttgactacac 60
ngacgcgccg tacaggntna attatgggnan cttacatggn aaaggggcan ctcaatgtcc 120
cacag 125

<210> 72
<211> 473
<212> DNA
<213> Human

<220>
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<222> (151)..(151)
<223> n is a, c, g, or t

<400> 72
gaaatgaaat aatgaaatga gatgaaataa cgaaataaaa ttgaaatgag atgagaggaa 60
atgagatgaa atgttgaaaa gaaaggagga aatgatgagg tgagatgaaa tgatgagatg 120

SEQLIST~1.TXT

aaatgaatct gagatgaaat gagatgaaaa ntgatacgaa aaatgatata aaaaatatga	180
cctgagatga aatgagatga aaaatgatac gaaaaatgat ataaaaaata tgacatgaaa	240
tgaaatgaga tgatatgaaa tgacataatg aaatgatgaa ttgatgatat tgaaatgaaa	300
ttgaaagatg agatgaaatg atgagatgaa atgaaatgtt gaaatgatga agagatgtga	360
catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga	420
tgagatgaaa aatgagatga gatgatgaga tgagatgaga tgaattgaga tga	473

<210> 73
 <211> 500
 <212> DNA
 <213> Human

<220>
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 <222> (7)..(7)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (16)..(16)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (233)..(233)
 <223> n is a, c, g, or t

<400> 73 aatgagnatg aaaagnatga aatgatgaga tgaaatgaaa tgatgagatg aaatgaggtg	60
aaatgaaatt agatgaaatg taatgagatg aaatgaaatg acctaatagaa atgaaataat	120
gaaatgagat gaaataaaaat aatgaaatga tgaaataatg aaatgaaaat gagatggaaa	180
tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga ganaaaatga	240
gatgaaatga tgagatgaga tgaaatatga tgagttgaaa tgacataatg aatgaaatga	300
tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga	360
aatgatgaaa tgatgagatg aaatgatgaa atgaaataat gaaatgagat gaaataaaaat	420
aatgaaatga tgaaataatg aaatgaaaat gaaatggaaa tgatgagatg agaagaaatg	480
atgagatgaa atgatgaaat	500

<210> 74
 <211> 299
 <212> DNA
 <213> Human

<220>
 <221> misc_feature
 <222> (31)..(32)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (57)..(57)

<223> n is a, c, g, or t

<400> 74

ggaaatcctg aagtggaaat gatgagctga nntgcaatga gttgaaatga gatgaancga 60

tgaaatgatg agatgaaatg atgagatgag atgtgatgaa atgatgatat gaaatgatga 120

cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa tgagatgaaa 180

tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg 240

aatgatgaaa tgaaatgatg agatgagatg atgaaatgaa atggtgagat gaaatgatg 299

<210> 75

<211> 155

<212> DNA

<213> Human

<400> 75

agtgaaatga aattgaaata aaatcgaaat gagatgagat gaaatgatga gatgatgaaa 60

taaaatgatg aaatgatgag gtgatgagat gaaatgatga gatgaaatga tgagatgaga 120

tgagatgaca tgaaataatg aaacgaaatt gaaat 155

<210> 76

<211> 367

<212> DNA

<213> Human

<220>

<221> misc_feature

<222> (11)..(11)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (35)..(35)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (37)..(38)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (43)..(43)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (56)..(56)

<223> n is a, c, g, or t

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<220>
 <221> misc_feature
 <222> (67)..(67)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (71)..(71)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (75)..(75)
 <223> n is a, c, g, or t

<400> 76
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 ctacttnaga ngaantcctc gcaaaatcct tgaatcaccg cttcagtgcg gtgatatac 120
 cgccatgaaa tttctgctcg attagcttac gttgtttgga tagaggccaa acaaggctgt 180
 tatcggtagc aggaatggat gttcgatttc gtagaatacg cctgagagac ggcgaatact 240
 ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga 300
 aaatatgagg ggtggcaagg ttttgccctgt tacatttctca aatggaagca aattagatat 360
 gtcattg 367

<210> 77
 <211> 257
 <212> DNA
 <213> Human

<220>
 <221> misc_feature
 <222> (6)..(6)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (11)..(11)
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<400> 77
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 tcagtgtttg gggtttattt ttaaaagaat aggggtgccac cagatgttct ttagtggagg 180
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tattaccaaa atatttggac cattantaaa gantaggggcc aaccnaatt tttcttgaaa 180
tttccgttaa atagccgtta aatgttttta cccatttcat attggatacc ttaaattata 240
ataatggatt ttattgttaa attgtgtgtg tgtgggtgtg atgccctgtc ttttctcctc 300
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ggaaaanaaa tccttttttaa anggaantcc aagggaagga ncctgnncaa nacttcccn 180
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gaaatgaagt gaaatgaaat tgaaatgaga tgagatgaaa tgagataaaa tgatgagatg 180
aatgagaag aatgagatg aatgatgaa atgatgagat gagatgaaaa atgatgggat 240

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gagaaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa tgaaatgaaa	300
tgaaattgata atattgaagt gaaattgaaa gatgagattg gatgaaatga tgagatgaaa	360
tgaaatgttg aaatgaaatg aagagatgta acatgaaatg agctgaaatg atgagatgaa	420
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ntagggacct gctctataag cccatcataa tttattatga agttataaca agtaaaacag	180
taaggatattt ggcattggaat agagaaccca gaaacagacc caatgcatgg gtacaggata	240
taacacaggg aaatgagggg caatatatgg ttctgggata attatttata tggggaaaat	300
aaagaaattg gatccctacc tcacacatac aaaaaaaatc ataattgaat taaaaacttg	360

SEQLIST~1.TXT

catgtgaaag gaaagacttt aaaacattta gaaaaagtat tggaggctat gatcttgggg 420
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<212> DNA
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aacttcctca gaaggacaag agacaaaagaa gtggggggagg ccctcctatc catagctgag 180
agggtttatt ctttgtggtt ctgctgtcag agcctttgga tgtctgatct gagatggagc 240
aaccagcgt agacagaact ttgtagattt tgggggggtt aaaaggcctc aagcaaattc 300
taaaactttc tttgaacccc ctggcatagg ctcagtttcc ctgact 346

<210> 85
<211> 100
<212> DNA
<213> Human

<400> 85
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gaaaagaaaa tggttttttt tgccgaaatc aaccgggtaa 100

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<212> DNA
<213> Human

<400> 86
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attacctctt tttgtgacca ctcttaaagg ccaggaacat atttggagaa gcctagtgtg 180
atgtaacagt gtggggtttc a 201

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<400> 87
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tcttttacct cggcactcgg gtccaccctc gcggcaccag aggtattctc cggcgagtcg 180
ttaaccatcg caatcgccga ccgagtttaa ggaccactcc ccacctttct cattagttaa 240
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ttcttctaag cgtagcgcgt ctactccaat gttttcgta atccagcccg aactaacgcc 420
gcggaggagt cgatccgtct actcctatcc cgtcgggtcg gatttactac aggagctaag 480
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<400> 88
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acagccaaac cggtcgcgcc aaggcctccg tcgttttata atatattccg tttacgtata 180
aggaacgaac ccccttcat taccacgggtc ccgcgtccgc ctcttctcc attcgcaaca 240
gttctattcc tttcagcctc ccgtacctgc ttccagaaca tcgcaccgcc atagtcgaaa 300
gatagcaaag attaccagc ttctattcct cgtccagag ccgagtaaat cgaagtttat 360
agaggcggaa tccaaccatt caagagttat aacaagttat cggcactcgg gggatcagaa 420

SEQLST~1.TXT

tataaactta atgtcccctt tattctcccg gacgcccctt ttaaccactt cttcctatct 480
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aattaaggna aggnnttaaaa aatttaacca angggggggtt taaagggntt ttttttttta	180
aaaaaaaaagg ttaaancccc cccttttttt ttgggttggg gtgggaaaat tttgggaanc	240
cttaaccccc gggtttttgg gtttttttgg ccaaaacccc ccggaaaaaa attaaaaaaa	300
ggaccgggtt ccattttaat gggatttggg aa	332

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cggtggtaac tattaaaaca taagtttaat cggtatttaa aattttaaaa tcaaaaaaaaa	120
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tcgttatgct ttccaatcct gcttgcaata taagacacaa agtcagaata aagctcaaga	180
aaacagaacg tgcaggccat caagcgcaga gcctgctcat tggacaaccg caaagagtag	240
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